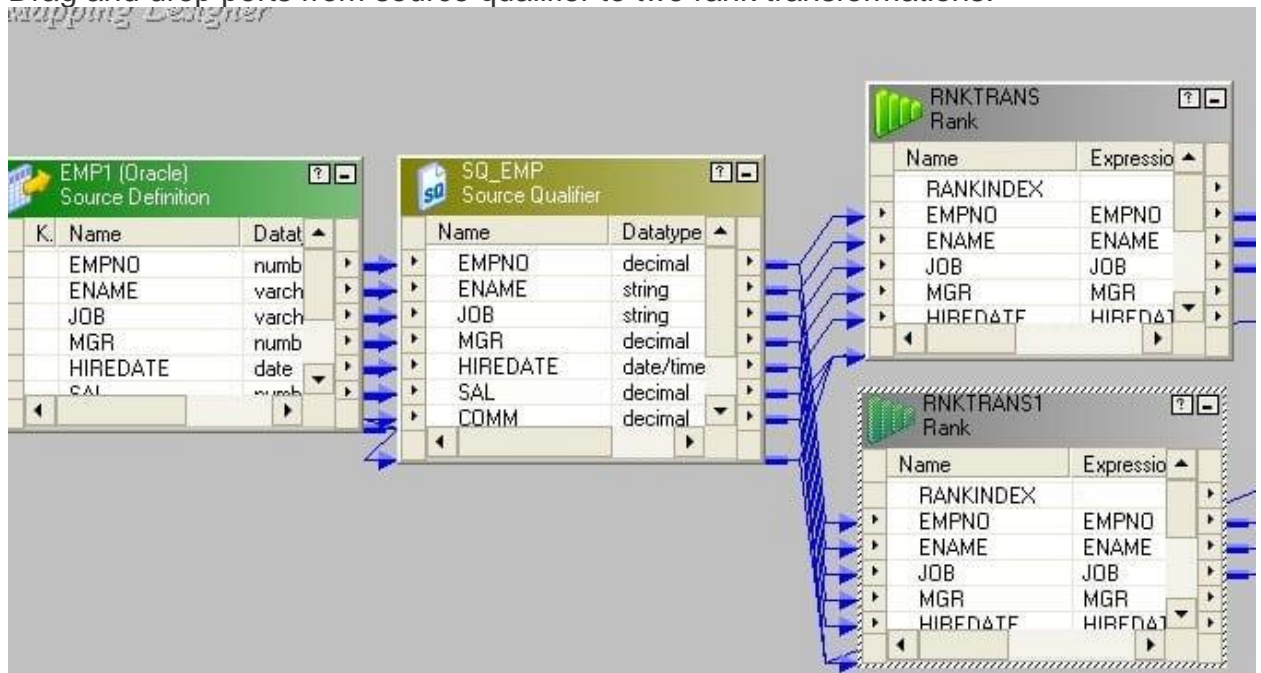


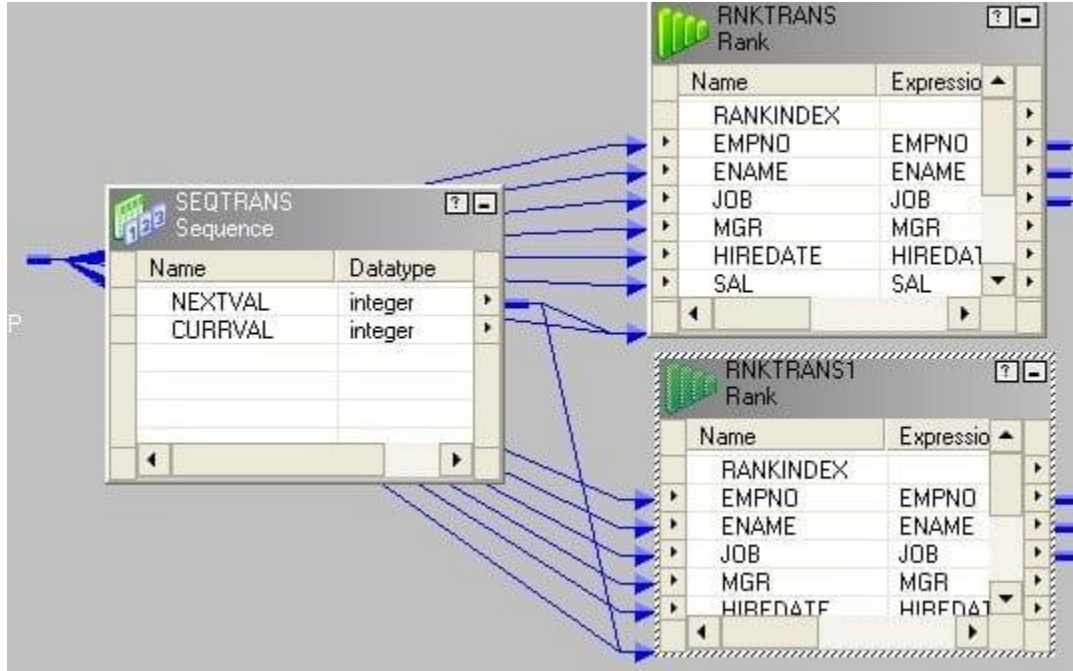
**How do you load first and last records into target table? How many ways are there to do it? Explain through mapping flows.**

The idea behind this is to add a sequence number to the records and then take the Top 1 rank and Bottom 1 Rank from the records.

1. Drag and drop ports from source qualifier to two rank transformations.



2. Create a reusable sequence generator having start value 1 and connect the next value to both rank transformations.



3. Set rank properties as follows. The newly added sequence port should be chosen as Rank Port. No need to select any port as Group by Port.Rank – 1

**Edit Transformations**

Transformation | Ports | Properties | Metadata Extensions

Select transformation: **RNKTRANS**

Transformation type: Rank

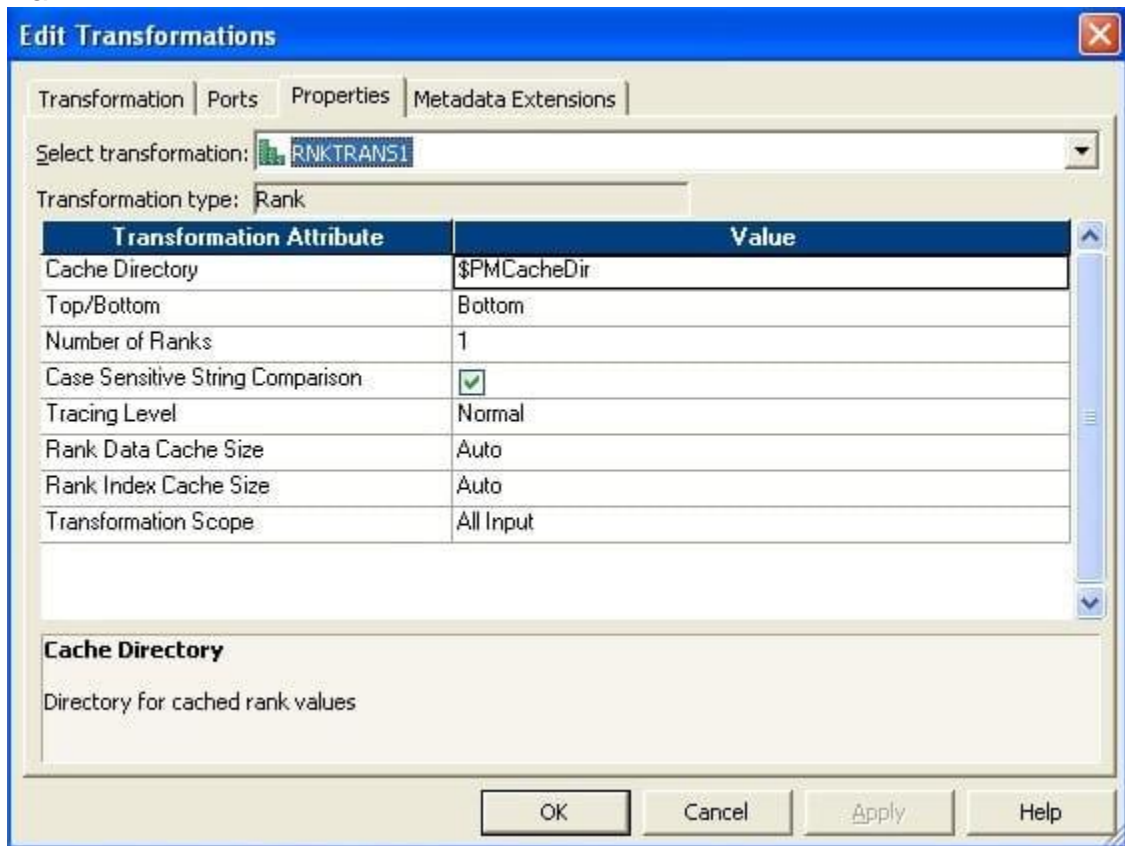
| Transformation Attribute         | Value                               |
|----------------------------------|-------------------------------------|
| Cache Directory                  | \$PMCacheDir                        |
| Top/Bottom                       | Top                                 |
| Number of Ranks                  | 1                                   |
| Case Sensitive String Comparison | <input checked="" type="checkbox"/> |
| Tracing Level                    | Normal                              |
| Rank Data Cache Size             | Auto                                |
| Rank Index Cache Size            | Auto                                |
| Transformation Scope             | Transaction                         |

**Cache Directory**

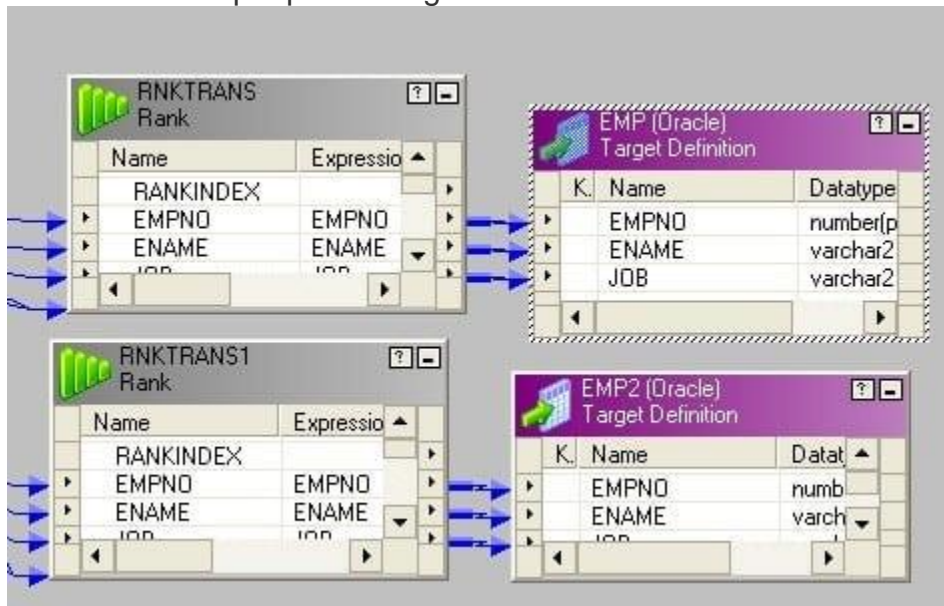
Directory for cached rank values

OK Cancel Apply Help

4. Rank – 2



5. Make two instances of the target.  
Connect the output port to target.

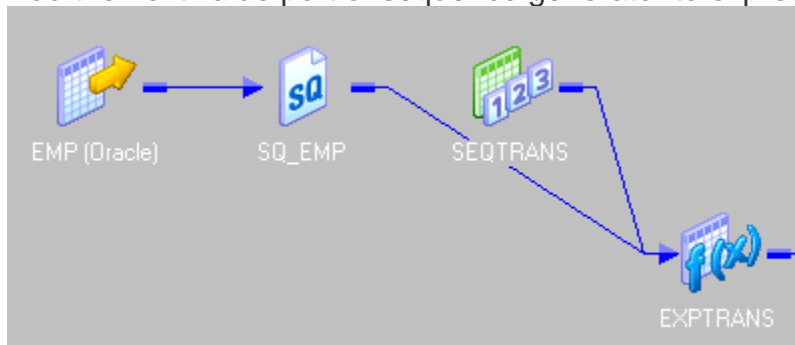


Q. I have 100 records in source table, but I want to load 1, 5,10,15,20.....100 into target table. How can I do this? Explain in detailed mapping flow.

This is applicable for any  $n = 2, 3, 4, 5, 6, \dots$ . For our example,  $n = 5$ . We can apply the same logic for any  $n$ .

The idea behind this is to add a sequence number to the records and divide the sequence number by  $n$  (for this case, it is 5). If completely divisible, i.e. no remainder, then send them to one target else, send them to the other one.

1. Connect an expression transformation after source qualifier.
2. Add the next value port of sequence generator to expression transformation.



3. In expression create a new port (validate) and write the expression as in the picture below.

**Edit Transformations**

Transformation Ports Properties Metadata Extensions

Select transformation: EXPTRANS

Transformation type: Expression

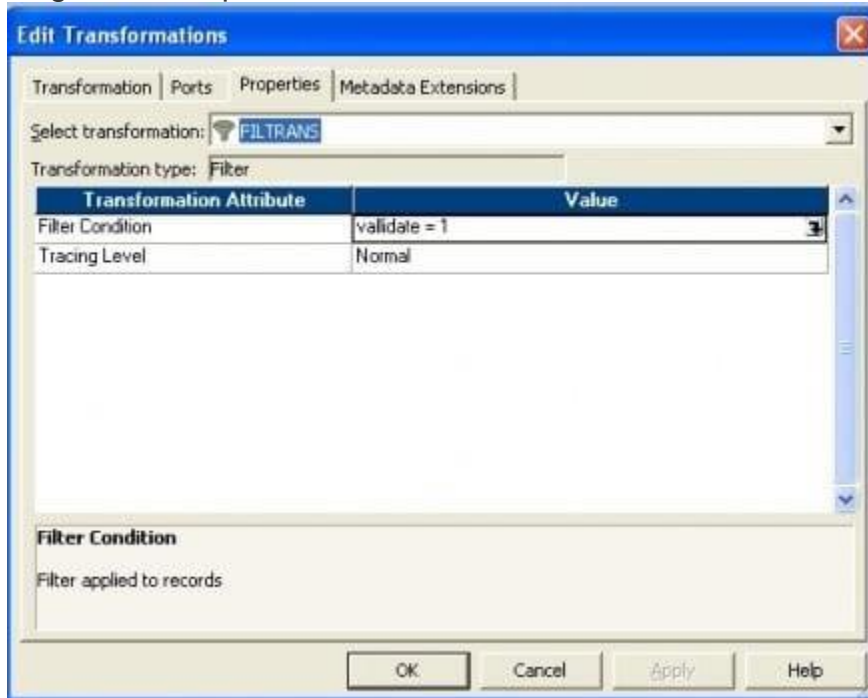
|    | Port Name | Datatype  | Prec | Scale | I                                   | O                                   | V                        | Expression                |
|----|-----------|-----------|------|-------|-------------------------------------|-------------------------------------|--------------------------|---------------------------|
| 2  | ENAME     | string    | 10   | 0     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | ENAME                     |
| 3  | JOB       | string    | 9    | 0     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | JOB                       |
| 4  | MGR       | decimal   | 4    | 0     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | MGR                       |
| 5  | HIREDATE  | date/time | 19   | 0     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | HIREDATE                  |
| 6  | SAL       | decimal   | 7    | 2     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | SAL                       |
| 7  | COMM      | decimal   | 7    | 2     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | COMM                      |
| 8  | DEPTNO    | decimal   | 2    | 0     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | DEPTNO                    |
| 9  | NEXTVAL   | integer   | 10   | 0     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | NEXTVAL                   |
| 10 | validate  | integer   | 10   | 0     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | if((NEXTVAL % 3) = 0,1,0) |

Default value:

Description:

OK Cancel Apply Help

4. Connect a filter transformation to expression and write the condition in property as given in the picture below.



5. Finally connect to target.

